Introduction Results



Coop Farm Okayama 1st Farm Plant: Momotaro tomatoes System: MIKUHIDE I + TEREGRORY



Yamaguchi Prefecture Nakanome Farm

Plant: Tomatoes

System: MIKUHIDE II + GT6A



Nishimura Farm Plant: Strawberries "Kaorino," "Akihime," "Benihoppe," "Oi C Berry" System: MIKUHIDE II + GT6A



Mr. Miyamoto Plant: Grapes System: MIKUHIDE I



Company M Plant: Grapes System: MIKUHIDE II + GT6A



Takehisa Nouen (Green Thumb's own farm) Plant: Momotaro tomatoes System: MIKUHIDE II + TEREGRORY

In addition to the above, our products are also used in agricultural high schools in Okayama Prefecture. (As of August 2024)

System Configuration







<MIKUHIDE I>

This is a system that detects the daily changes in the weather and automatically waters the plants at the optimum time. The amount of irrigation water can be adjusted by the user.

<MIKUHIDE II>

This is a system that automatically performs the optimal cultivation using an accumulated algorithm to adjust the timing of irrigation and the fertilizer concentration depending on the weather conditions.

It is possible to set up to six systems with different fertilizer concentrations and irrigation amounts. There are also the options to use control by sensors, and to collect data from each sensor.

<TEREGRORY>

This is a system that realizes full-scale IT agriculture by using a PC, tablet or smartphone to remotely manage and control the various environmental controls in greenhouse cultivation.

Inquiry Contacts

e-mail



Green Thumb Co., Ltd. MIKUHIDE Website

Green Thumb Co., Ltd.

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Established February 1997 Capital 5 million yen Representative Osamu Takehisa

Contents of Design and development of hydroponic equipment, and sales business of fertilizers and materials

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Patented Patent No. 6651191 Cultivation Support System, Controller and Control Method 有限会社グリーンサム



Cultivation support system using an irrigation and fertilizer supply algorithm with climatic variation detection



Green Thumb Co., Ltd.

Green Thumb Co., Ltd. is an organization that provides growers with hydroponic systems that enable the stable production of agricultural products that are loved by consumers to share joy and excitement together with them

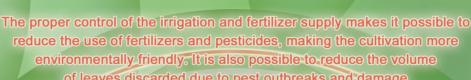
MIKUHIDE

Automatic control of irrigation and fertilizer supply in accordance with environmental changes and the stages of growth

MIKUHIDE provides a significant improvement in profitability

reduce the use of fertilizers and pesticides, making the cultivation more environmentally friendly. It is also possible to reduce the volume of leaves discarded due to pest outbreaks and damage.

is possible



Cultivation with less agrochemicals

Environmental

MIKUHIDE



The "Hare Tomatoes" that are sold through regular purchasing from the Okayama Coop are cultivated with stable quality and yield.

Cherry tomatoes

tomatoes, grapes,

strawberries. green peppers,

cucumbers

eggplants, etc.



Example

crops

supported

The cultivation algorithm is

further enhanced when results

are accumulated in actual use

Cultivation status by MIKUHIDE

profitability



Quality stabilization and

Quality

yield improvement

By using an algorithm that is based on the sensor information and past results, the system supplies fertilizer in accordance with the environmental changes in the greenhouse.

This prevents root damage and wasted fruit and thereby enables the maintenance of high quality and increased yields.

Automatic 24-hour control of

Efficient

irrigation water and fertilizer supply

The system automatically adjusts the irrigation timing and fertilizer concentration according to the weather conditions and performs the optimal cultivation.

It is possible to build systems for various facilities by combining the systems, such as GT6A with TEREGRORY.







control - - - - supply

MIKUHIDE II + GT6A

With GT6A, it is possible to set up to six systems with different fertilizer concentrations and irrigation amounts. It is also possible to connect optional control using sensors such as solar radiation, temperature and humidity, and

By connecting to a PC, it is possible to collect each setting value, the irrigation solution data, and data from each sen Entering details such as the fertilization amount and intervals into the system enables the automatic management of irrigation and fertilization with nutrient solution

This is then performed automatically 24 hours a day.

MIKUHIDE II + TEREGRORY

TEREGRORY is a system that can perform the integrated management and control of t

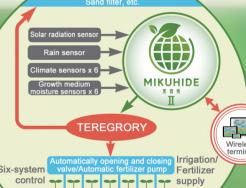
This maintains the greenhouse environment automatically 24 hours a day and realizes both reduced labor requirement

and improved quality and yield.

This is a system that detects the daily changes in the

weather and automatically waters the plants at the optimum tin The amount of irrigation water can be adjusted by the user.





Own-company farm results for tomato vields

After the introduction of the system in 2018, <per 10a (kg)> there was a significant increase in yield 28.551 27.583 28,216 from the previous year and also it has been possible to maintain the high yield despite the aging of the greenhouse film In addition, there was a dramatic drop in the softening splitting, and rotting of the fruit, and the high shipping rate greatly improved

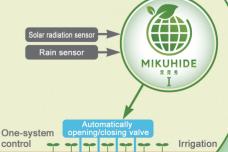
> Sales revenue increase of approximately 4 million yen before and after the introduction to the company's own 16 a farm

Compatible with a variety of items and cultivars to be grown, and also with various types of media, such as potting and rockwool. It is also possible to manage and adjust the EC (electrical conductivity) values,

irrigation, and fertilizer to suit each growth stage and plant.

The values from various sensors can be checked with various wireless terminals such as smartphones, and settings can be changed remotely, which expands the possibilities for farming as a side job.





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